

Datasheet: VMA00976

**BATCH NUMBER 100005824**

<b>Description:</b>	MOUSE ANTI PEA15
<b>Specificity:</b>	PEA15
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	CD02/4E2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - Liquid

### Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** *E. coli*-derived recombinant protein of amino acids 1-130 of human PEA15

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## External Database Links

### UniProt:

[Q15121](#) [Related reagents](#)

### Entrez Gene:

[8682](#) PEA15 [Related reagents](#)

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**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

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**Specificity** **Mouse anti PEA15 antibody** recognizes astrocytic phosphoprotein PEA-15, also known as PED. PEA15 is a multifunctional, non-enzymatic protein able to regulate a variety of signaling pathways and implicated in a range of biological processes. It can act as a tumor suppressor, regulating cell cycle progression by promoting the DNA damage-induced G2/M checkpoint and inhibiting RAS-mediated transformation. The function of PEA15 as a tumor suppressor can be attributed to its ability to restrict extracellular signal-related kinase (ERK) in the cytoplasm ([Hindupur et al. 2014](#)). Consistent with its role as a tumor suppressor, PEA15 is epigenetically silenced in many human tumors ([Nagarajan et al. 2014](#)). In ovarian carcinoma, high expression of PEA15 corresponds to increased patient survival. However, PEA15 also appears to have pro-tumorigenic properties. In glioblastoma, for example, PEA15 expression contributes to tumor survival ([Gawecka et al. 2012](#)).

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**Western Blotting** Mouse anti PEA15 detects a band of approximately 14 kDa in A172 cell lysates

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**Storage** Store undiluted at -20°C, avoiding repeated freeze thaw cycles

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** PrecisionAb is a trademark of Bio-Rad Laboratories

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00976>  
Antibody (10040)

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

**North & South** Tel: +1 800 265 7376

**Worldwide** Tel: +44 (0)1865 852 700

**Europe** Tel: +49 (0) 89 8090 95 21

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batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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